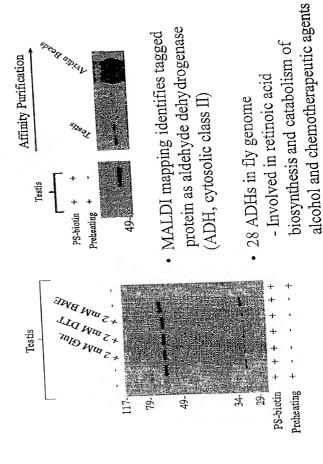


Non-Directed Tagged Library of Sulfonates Identifies Probe for ADH Superfamily of Enzymes



Scheme 2. A strategy for convergent, stereocontrolled syntheses of conformationally well-defined spiroepoxides of type VI. Literature precedent for I → II → III → IV → V can be found in Sorensen, E.J. et al. Angew. Chem. Int. Ed. 1999, 38, 971-974. Compounds of type VI are analogs of the metalloprotease (MetAp-2) inhibitor furnagillin and will be employed as covalent affinity agents in activity-based proteomics studies.

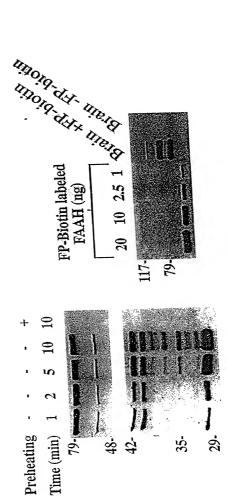
and length

(B) = blotin

R = alkyl, aryl, substituted aryl, heteroaromatic, thioalkyl, or thioaryl moletles.

FP-Biotin: a kinetic reporter of SH Activity

- The rates at which the majority of SHs react with FP-biotin can be experimentally followed
- FP-biotin readily detects low femtomole quantities of SHs directly in complex cell/tissue proteomes



Utility of Multiplexed probes in identifying

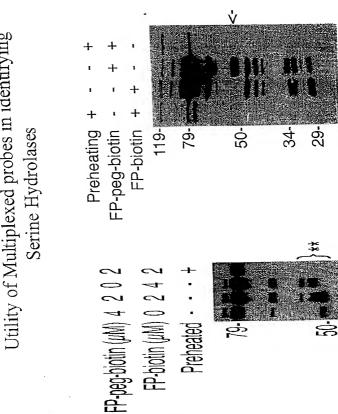
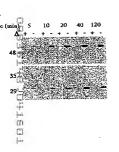
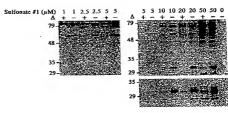


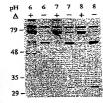
FIGURE 6

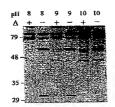




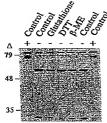


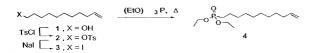
C











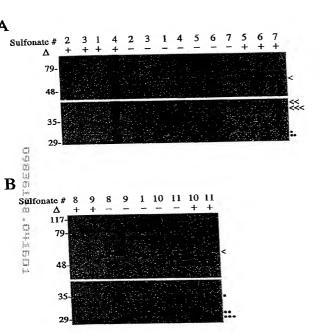
В.

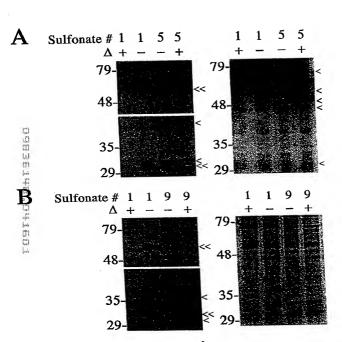
$$R = \sum_{i} \sum_{j=1}^{H} \sum_{i=1}^{H} \sum_{j=1}^{H} \sum_{i=1}^{S} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{H} \sum_{j=1}^{S} \sum_{i=1}^{S} \sum_{j=1}^{H} \sum_{i=1}^{S} \sum_{j=1}^{S} \sum_{j=1$$

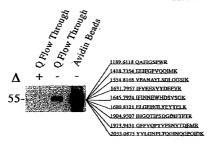
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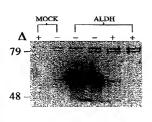
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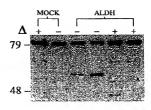
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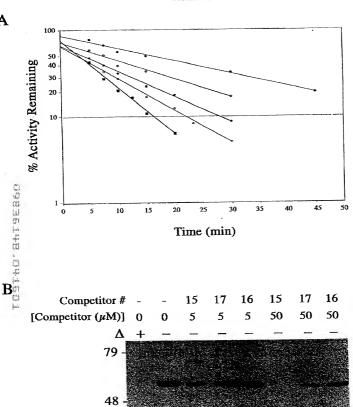


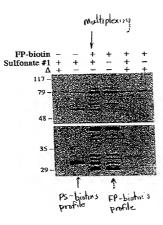


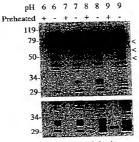




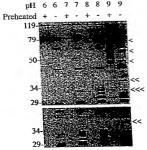
BL-21 Cells - - + + Testis Proteome + + - - Δ + - + - 79 - - - 2







FP-peg-biotin



FP-biotin

